Digital Camera Epson PhotoPC 750Z

Training Guide

DRAFT

Pinellas County Schools
Instructional Technology

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Objectives

Digital cameras help teachers to enhance and/or illustrate incorporate digital photography in their presentations and word processing or other programs and The following objectives are based on recommendations by the International Society for Technology in Education (ISTE) in establishing technology standards for all teachers.

1.2 Personal and Professional Use of Technology.
Candidates will apply tools for enhancing their own professional growth and productivity. They will use technology in communicating, collaborating, conducting research, and solving problems. In addition, they plan and participate in activities that encourage lifelong learning and will promote equitable, ethical, and legal use of computer/technology resources.

1.2.1 Use productivity tools for word processing, database management, and spreadsheet applications.
1.2.2 Apply productivity tools for creating multimedia presentations.
1.2.3 Use computer-based technologies including telecommunications to access information and enhance personal and professional productivity.
1.2.4 Use computers to support problem solving, data collection, information management, communications, presentations, and decision making.
1.2.6 Demonstrate knowledge of equity, ethics, legal, and human issues concerning use of computers and technology.
1.2.7 Identify computer and related technology resources for facilitating lifelong learning and emerging roles of the learner and the educator.

Course Description and Organization

Digital Camera is designed to be taught as a 2-4 hour course. Through this course the participant will learn the basic functions and operation skills for using a digital camera. Upon completion of this course and the submission of all required activities, the learner will receive credit in the form of component points and a Certificate of Completion. The Certificate is the record of completion for the Pinellas County Technology Invitation. Please keep all materials and Certificates earned through Technology Invitation in a notebook for future reference.

Digital camera is organized so that activities may be completed in a variety of ways. Time for the completion of activities may or may not be provided during the course of the training. Some work may need to be completed and returned to the instructor after the component has finished. The instructor will provide the time frame for completion and address to send finished work.

Notes

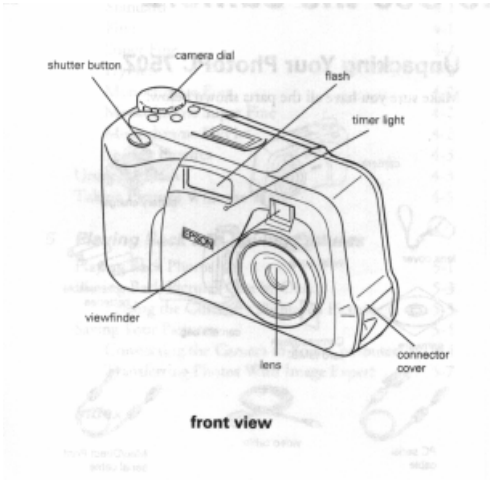
Technology Requirements

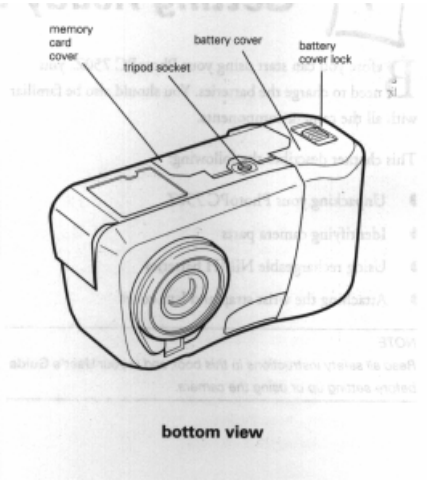
Hardware

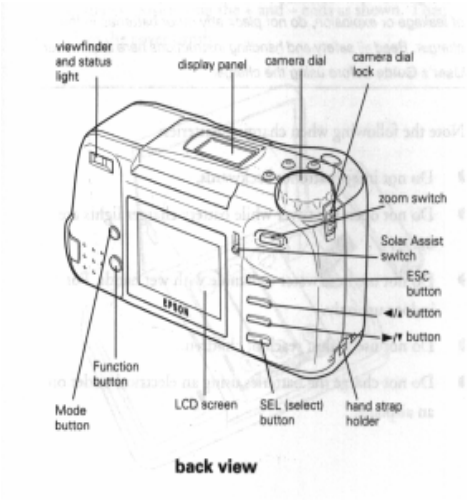
- Power PC or G3
- System 7.X or later
- CD-ROM drive
- Minimum 16MB RAM
- 30MB of available hard disk space
- Serial communications port
- VGA monitor, minimum resolution of 640x480 with 16 colors
- Mouse or pointing device

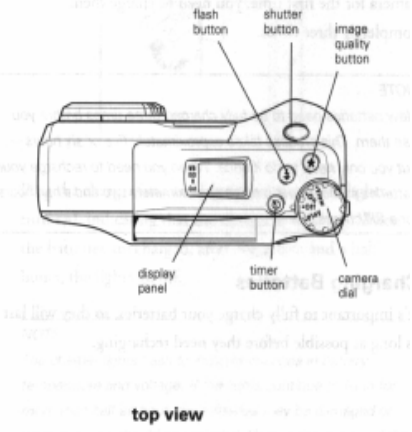
Identifying Camera Parts

Notes









Using Rechargeable NiMH Batteries

Notes

The digital camera comes with 4 rechargeable batteries and a pocket-size charger. The batteries can be charged hundreds of times. The batteries should be recharged 3 times before installing them for the first time in your camera. New batteries will take approximately 5 or 6 hours to re-charge, but this for the first time only. The next time the batteries are to be charged, it will take about two and one half hours. (**Only use the NiMH batteries in the Epson charger**)

When charging batteries...

- Do NOT insert batteries backwards
- Do NOT open the cover while battery charger lights are on.
- Do NOT use near water or with wet hands. Indoor use only.
- Do NOT use within reach of children.
- Do NOT charge the batteries using an electrical outlet on an airplane.

Insert the batteries by positioning the + and - ends as indicated by the markings inside the case.

Plug the charger into an outlet and two lights will turn red indicating the battery is in the charge mode. In about two and one half hours, the lights will go off indicating the charge is complete. If the lights continue to flash, then batteries may be damaged or worn out and should be replaced.

Do not use the battery charger for more than 4 hours.

Wait one hour for batteries to cool before removing them from the charger.

Installing Batteries

Be sure camera is turned off before installing batteries.

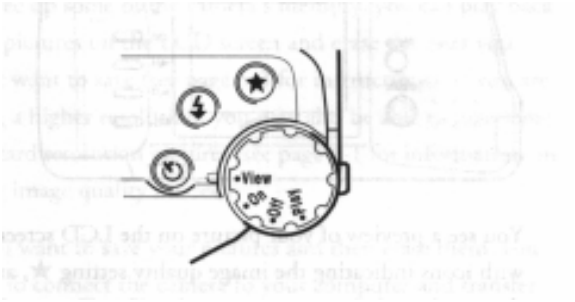
1. Turn camera upside down and slide battery cover lock to the OPEN position.

2. Lift the cover and insert all 4 batteries positioning the + and - ends as shown inside the camera case.

3. Close the battery cover by holding the cover down while sliding the lock from OPEN to CLOSE

Taking Pictures

1. Remove the lens cover.
2. Rotate the camera dial to **On** or **View .** Under the **View** mode, the LCD screen comes on. When the status light turns green, the camera is ready for use.
3. When finished taking your pictures, turn the camera dial to **OFF**.



Setting the Language and Clock

The first time you use the camera, you will be asked to set the language and the clock.

1. Set the camera dial to **VIEW.**
2. At the prompt press the **ESC** key to choose English.
3. Press the **SEL** button. Click on the up or down arrows to increase or decrease the date, time or seconds. Click on **SEL** after each setting.
You will have to set the clock each time you change the batteries as it takes battery power to keep the date and time modes functioning.

Installing Memory Card

1. Turn off the camera.
2. Flip open the memory card cover.
3. Insert the memory card totally into the slot.
4. Close the memory card cover.

Formatting Memory Card

Before using the camera with the new memory card, do the following:

1. Set the camera dial to **PLAY.**
2. Press the **SEL** button to display the **LCD** screen menu.
3. Press the up and down button until the **Photo Control** menu appears.
4. Press the **SEL** button to display the menu options.
5. Press the up and down button until the **Format Card** is highlighted.
6. Press the **SEL** button. A message will give a prompt that all data will be erased . Confirm this and press the **SEL** button.

Notes

7. Press the SEL button again to format the card and then return to the Photo Control menu.

Removing the Memory Card

1. Turn camera **OFF.**
2. With **LCD** screen facing up, flip the **Memory Card** cover open.
3. Press the **Eject** button, take hold of the exposed card and pull it out from the camera.

Using the Display Panel

The **Display Panel** shows the camera's current settings and the number of pictures remaining.

Checking on Low Battery

A low battery icon will appear on the screen when batteries are low. The icon changes to a flashing icon when the battery power is depleted.

Taking Pictures with the Viewfinder

To take Point -and -Shoot pictures, look through the optical viewfinder and snap the 2-step shutter.

1. Be sure you are at least 32 inches from the subject.
2. Slide the camera dial lock down and turn the Camera Dial **ON** and wait until the status light turns green.
3. Look through the Viewfinder and center the subject within the cross-hairs.
4. Move the Zoom control up to get closer or down to get farther from your subject.
5. Hold the shutter halfway down to lock the autofocus. This will change the status light from green to orange.
6. Press the shutter button all the way to take the picture.
7. Hold the camera still until it beeps and the status light starts flashing red. This indicates that the camera has captured the image and is processing it.
8. When the light turns green, the image has been saved and you are ready for the next picture. Saved images can remain in memory for at least a year even if the camera is turned off and the batteries removed.

Notes

Taking Pictures with the LCD Screen

Notes

The **LCD** screen lets you see a live preview of what the camera's lens sees.

1. Remove the lens cap and turn the camera dial to the **View** position.
2. If outside, flip to the **Solar Assist panel** to save battery power by lighting the screen with direct sunlight.
3. Center your subject on the screen and move the **Zoom control** up to get closer and down to get further away.
4. Hold the shutter button halfway down to lock the autofocus.
5. The status light changes from green to orange and a small green circle appears in the upper right hand corner of the screen. While holding the shutter down, you can reframe your picture or move things off center.
6. Press the shutter button the rest of the way down to take the picture.
7. Hold the camera still until it beeps and the status light starts flashing red.

NOTE: The **LCD** screen uses up battery power quickly. If idle for more than 30 seconds, the camera shuts off automatically. To turn back on, press the shutter button down and turn camera dial to **OFF** and then back to **VIEW.**

Checking the Picture Counter

The large number on the center of the display panel (on top of camera) shows how many pictures you can take. This number depends on the image quality and special format settings.

When the camera's memory is full, the number of pictures remaining is 0. The status light on the back of the camera turns red. Press the shutter button again and if it says the memory is full, do the following:

1. Play back the pictures on the **LCD** screen and erase the ones you do not want.

2. By changing from a higher standard to a standard resolution will save memory.

3. If you want to save the pictures and then erase them, you need to connect the camera to your computer and transfer the images.

Setting up the Software (MAC)

Notes

1. Insert the CD in the CD-ROM DRIVE.
2. Double click on the CD ROM icon.
3. Double click the Install PhotoPC 750Z icon. Click Continue and follow the instructions on the screen.

Connecting to a Macintosh

If you have an AC adapter use it! Make sure you have the MAC Direct Print cable that came with your camera. Before you start, turn the camera OFF.

1. Locate the MODEM port or the PRINTER port on the back of your computer.
2. Line up the arrow on the cable connector with the port icon on your Macintosh. Then insert the connector.

4. Open the connector cover on the side of the camera.

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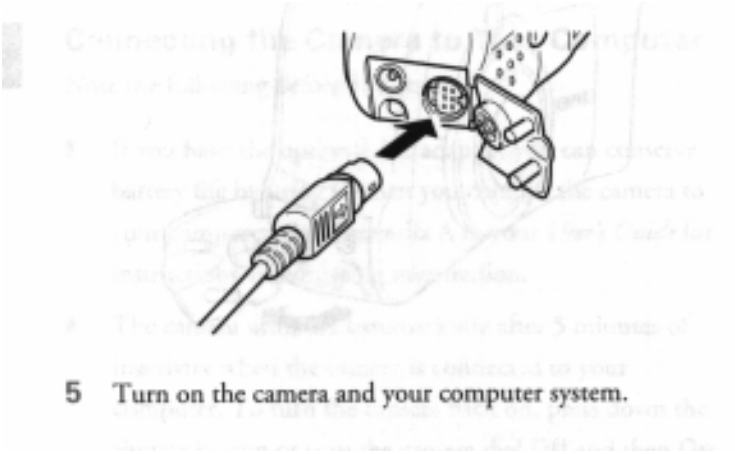


5 Turn on the camera and your computer system.

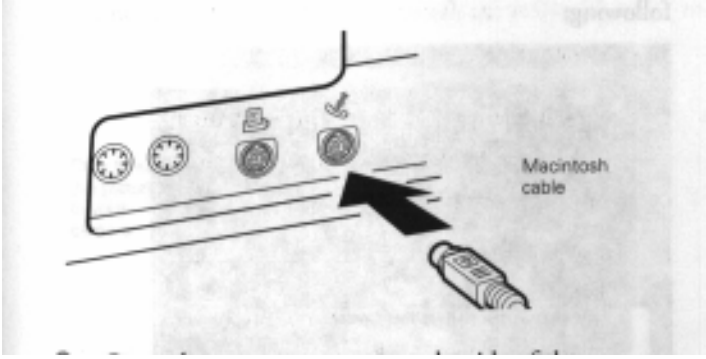
5. Line up the arrow/flat side of the cable connector with the mark on the camera's serial port. Then insert the connector.

6. Turn the camera on as well as your Macin osh system.

On a Mac G3, the transfer rate can be up to 230.4 KB per second!

Transferring Photos with Image Expert

1. On the Macintosh, find the PhotoPC 750Z folder and double click on the Image Expert icon.
2. Click on any of the topics that appears on your screen for an animated demo of what you can do with image Expert.
3. To skip the tour and transfer the pictures, click **CLOSE.**
4. Click **View Pictures** in the Camera. You see a window displaying "filmstrips" of your images.



5. Click **GET ALL** to transfer all images. You can also click on individual images to select it. The **GET ALL** button changes to **GET SELECTED.**

6**.** An album for your pictures will be created.

7. Click **OPEN** or **OK** to begin transferring the pictures.

8. When finished, close the filmstrip window.

9. If you want to make more room for more pictures on your camera, click **YES**. Your pictures are now displayed in an album.

10. Double click on an image to open **Image Expert** software.

As with any hardware item, always consult the directions that came with your digital camera.

Notes

Digital Camera Assessment

Hand in the following items to your instructor:

1. Take at least 3 pictures with the digital camera.

2. Transfer images to the hard drive.

3. Bring image to a word processor and add text to it. Print image out.

3. Write a paragraph describing ways you could integrate this technology into your curriculum. Send this to your instructor via PLACES.

Notes

Digital Camera

Pretest and Posttest

Name_____
School/Dept_____
Date_____

Directions:

Participants should take the pretest at the beginning of the course. In order to receive component points, the participant must show an eighty percent improvement in the learning objectives covered below. After completing the posttest, participants need to return it to the instructor.

Pre		Post		
Yes	No	Yes	No	
___	___	___	___	1. Participant can identify parts of the digital camera.
___	___	___	___	2. Participant can insert batteries correctly into the charger.
___	___	___	___	3. Participant can correctly insert batteries into the camera.
___	___	___	___	4. Participant can take a picture using the Viewfinder.
___	___	___	___	5. Participant can take a picture using the LCD Screen.
___	___	___	___	6. Participant can view a series of pictures on the LCD screen.
___	___	___	___	7. Participant can connect the camera to the computer.
___	___	___	___	8. Participant can transfer images to the computer.
___	___	___	___	9. Participant can erase images from the camera.